

East
Search
3rd
time
trying
to
get
~~good~~
usable
product

Type	L #	Hi ts	Search Text	DBs	Time Stamp	C Err ors	M orn D	E rro rs
1	BRS	L1	0 cyroacure same uvr same "6105"	USPAT	2000/09/ 20 15:46	0	0	0
2	BRS	L2	16 cyracure same uvr same "6105"	USPAT	2000/09/ 20 15:58	0	0	0
3	BRS	L3	37 0 3,4-epoxycyclohexylmethyl-3,4-epoxycyclohexene carboxylate	USPAT	2000/09/ 20 15:58	0	0	0
4	BRS	L4	37 3,4-epoxycyclohexylmethyl-3,4-epoxycyclohexene adj carboxylate	USPAT	2000/09/ 20 15:59	0	0	0
5	BRS	L6	0 4 and 5	USPAT	2000/09/ 20 16:00	0	0	0
6	BRS	L5	27 8 (Epon adj "1050") or (ECN adj ("1273" "1280" "9495"))	USPAT	2000/09/ 20 16:03	0	0	0
7	BRS	L7	0 5 and (25\$acrylate 25\$methacrylate)	USPAT	2000/09/ 20 16:04	0	0	0
8	BRS	L8	16 0 5 and (acrylate methacrylate)	USPAT	2000/09/ 20 16:05	0	0	0
9	BRS	L9	29 5 and (acrylate methacrylate) and (cycloaliphatic adj epoxy)	USPAT	2000/09/ 20 16:36	0	0	0
10	BRS	L10	16 4 525/482.ccls.	USPAT	2000/09/ 20 17:20	0	0	0
11	BRS	L11	88 sr adj "351"	USPAT	2000/09/ 20 18:23	0	0	0
12	BRS	L12	24 5 522/142,144.ccls.	USPAT	2000/09/ 20 18:24	0	0	0
13	BRS	L13	24 5 (522/142 522/144).ccls.	USPAT	2000/09/ 20 18:24	0	0	0
14	BRS	L14	24 5 (522/142 522/144).ccls. not 10	USPAT	2000/09/ 20 18:24	0	0	0
15	BRS	L15	24 5 (522/142 522/144).ccls. not 525/482.ccls.	USPAT	2000/09/ 20 18:25	0	0	0

C Hamilton

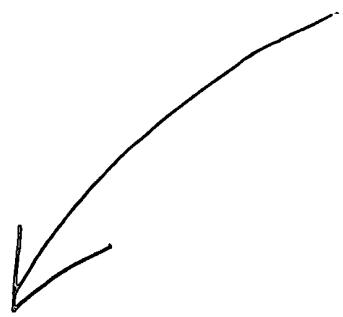
do not take from

file
Cited in Search notes

East search

	Type	L #	Hits	Search Text	DBs	Time Stamp	C or m e r n o r e r n	E r r o r r e r n
1	BRS	L1	0	cyroacure same.uvr same	USPA	2000/09/ 20 15:46		0
2	BRS	L2	16	cyroacure same. uvr same	USPA	2000/09/ 20 15:58		0
3	BRS	L3	01	36440 poxycycl ohexylmethyl-3 4,4-epoxycyclon	USPA	2000/09/ 20 15:58		0
4	BRS	L4	37	exocyclic ohexylmethyl-3 4-epoxycyclon exene adj	USPA	2000/09/ 20 15:59		0
5	BRS	L6	0	carboxylate 4 and 5	USPA	2000/09/ T 20 16:00		0
6	BRS	L5	27	(Epon adj "1050") or ("ECN adj	USPA	2000/09/ T 20 16:03		0
7	BRS	L7	0	548273 "12 25\$acrylate	USPA	2000/09/ T 20 16:04		0
8	BRS	L8	16	25 and (acrylate methacrylate)	USPA	2000/09/ T 20 16:05		0
9	BRS	L9	29	5 and (acrylate methacrylate) and (cycloaliphatic	USPA	2000/09/ T 20 16:36		0
10	BRS	L10	18	adj(epoxy) 5257482.ccls	USPA	2000/09/ T 20 17:20		0
11	BRS	L11	88	sr adj "351"	USPA	2000/09/ T 20 18:23		0
12	BRS	L12	24	522/142,144 5.ccls	USPA	2000/09/ T 20 18:24		0
13	BRS	L13	24	(522/142 5.522/144).ccls	USPA	2000/09/ T 20 18:24		0
14	BRS	L14	24	(522/142 5.522/144).ccls	USPA	2000/09/ T 20 18:24		0
15	BRS	L15	24	(522/142 5.522/144).ccls not	USPA	2000/09/ T 20 18:25		0
				5257482.ccls				

East
 Search as
 & printed
 when
 screen
 showed
 No prople
 problem
 with readability



Noted
 in
 Search Notes
 do
 no
 dispose
 of.

	Type	L #	Hits	Search Text	DBs	Time Stamp	Cor r e ct ed	Er ro rs
1	BRS	L1	0	cryoacure same uvr same "6105"	USPAT	2000/09/ 20 15:46	0	0
2	BRS	L2	16	cryoacure same uvr same "6105"	USPAT	2000/09/ 20 15:58	0	0
3	BRS	L3	37	3,4-epoxycyclohexyl methyl-3,4-epoxycycl hexene carboxylate	USPAT	2000/09/ 20 15:58	0	0
4	BRS	L4	37	3,4-epoxycyclohexyl methyl-3,4-epoxycycl hexene adj]	USPAT	2000/09/ 20 15:59	0	0
5	BRS	L6	0	carboxylate 4 and 5	USPAT	2000/09/ 20 16:00	0	0
6	BRS	L5	27	(Epon adj "1050") or (ECN adj ("1273" or "1270" or "1271") 5 and (25% acrylate) 25% methacrylate)	USPAT	2000/09/ 20 16:03	0	0
7	BRS	L7	0	5 and (25% acrylate) 25% methacrylate)	USPAT	2000/09/ 20 16:04	0	0
8	BRS	L8	16	5 and (acrylate methacrylate)	USPAT	2000/09/ 20 16:05	0	0
9	BRS	L9	29	5 and (acrylate) methacrylate) and (cycloaliphatic adj ep	USPAT	2000/09/ 20 16:36	0	0
10	BRS	L10	18	(cycloaliphatic adj ep 522/482.ccls.	USPAT	2000/09/ 20 17:20	0	0
11	BRS	L11	88	sr adj "351"	USPAT	2000/09/ 20 18:23	0	0
12	BRS	L12	24	522/142,144.ccls. 5	USPAT	2000/09/ 20 18:24	0	0
13	BRS	L13	24	(522/142 5 522/144).ccls.	USPAT	2000/09/ 20 18:24	0	0
14	BRS	L14	24	(522/142 5 522/144).ccls. not	USPAT	2000/09/ 20 18:24	0	0
15	BRS	L15	24	(522/142 5 522/144).ccls. not	USPAT	2000/09/ 20 18:25	0	0

For file
East
 Search
 when
 clearer
 show
 retrievable
 on screen

C. Hamilton
East Product
 Good

Search

Type	Search Text	DBs	Time Stamp	Corr Err Corr Err Corr Err Corr Err
B: R: S: I:	O: cyroacure same uvr same "6105"	USP AT	2000/09/20 15:46	0 0
B: R: S: I:	J: cyacure same uvr same "6105"	USP AT	2000/09/20 15:58	0 0
B: R: S: O: I:	3,4-epoxycyclohexylmethyl-3,4-epoxycyclohexene carboxylate	USP AT	2000/09/20 15:58	0 0
B: R: S: I:	3,4-epoxycyclohexylmethyl-3,4-epoxycyclohexene adj carboxylate	USP AT	2000/09/20 15:59	0 0
B: R: S: I:	(3,4-epoxycyclohexylmethyl-3,4-epoxycyclohexene adj carboxylate) and ((Epon adj "1050" or (ECN adj ("1273" "1280" "9495")))	USP AT	2000/09/20 16:00	0 0
B: R: S: I:	((Epon adj "1050") or (ECN adj ("1273" "1280" "9495")))	USP AT	2000/09/20 16:03	0 0
B: R: S: I:	((Epon adj "1050") or (ECN adj ("1273" "1280" "9495"))) and (25\$acrylate 25\$methacrylate)	USP AT	2000/09/20 16:04	0 0
B: R: S: I:	((Epon adj "1050") or (ECN adj ("1273" "1280" "9495"))) and (acrylate methacrylate)	USP AT	2000/09/20 16:05	0 0
B: R: S: I:	((Epon adj "1050" or (ECN adj ("1273" "1280" "9495"))) and (acrylate methacrylate) and (cycloaliphatic adj epoxy)	USP AT	2000/09/20 16:36	0 0
B: R: S: I:	525/482.ccls.	USP AT	2000/09/20 17:20	0 0
B: R: S: I:	sr adj "351"	USP AT	2000/09/20 18:23	0 0
B: R: S: I:	522/142,144.ccls.	USP AT	2000/09/20 18:24	0 0
B: R: S: I:	522/142 522/144.ccls.	USP AT	2000/09/20 18:24	0 0
B: R: S: I:	522/142 522/144).ccls. not 525/482.ccls.	USP AT	2000/09/20 18:24	0 0
B: R: S: I:	522/142 522/144).ccls. not 525/482.ccls.	USP AT	2000/09/20 19:48	0 0
B: R: S: I:	bf-1000 or bf adj "1000"	USP AT	2000/09/20 18:44	0 0
B: R: S: I:	(430/280.1 or 522/2,170).ccls.	USP AT	2000/09/20 19:49	0 0
B: R: S: I:	(430/280.1 or 522/2,170).ccls. not (525/482 522/144,142).ccls.	USP AT	2000/09/21 08:57	0 0
I: R: S: I:	("6120974").PN.	USP AT	2000/09/21 08:58	0 0
R: S: I:	("5965325").PN.	USP AT	2000/09/21 08:58	0 0
B: R: S: I:	(cresol novolac) near10 (epoxy or epoxid\$5)	USP AT	2000/09/21 11:35	0 0
B: R: S: I:	(cresol novolac novolak or novolac or novolak) near10 (epoxy or epoxid\$5)	USP AT	2000/09/21 11:36	0 0

Re issue 09481654, wsp

Type	Search Text	DBs	Time Stamp	Comments
23 R:5; S:8; 9;	B:5; (cycloaliphatic epoxycyclohexene epoxycyclohexyl\$20) and (epoxid\$25 or epoxy\$25)	USP AT	2000/09/21 11:40	EAST

Scanned

Type	Text	DBs	Time Stamp	Corr errs
1 R: S:	B: O: cyroacure same uvr same "6105"	USP AT	2000/09/20 15:46	0
2 R: S:	B: I: cyracure same uvr same "6105"	USP AT	2000/09/20 15:58	0
3 R: S: O:	B: T: 3,4-epoxycyclohexylmethyl-3,4-epoxycyclohexene carboxylate	USP AT	2000/09/20 15:58	0
4 R: S: O:	B: I: 3,4-epoxycyclohexylmethyl-3,4-epoxycyclohexene adj carboxylate	USP AT	2000/09/20 15:59	0
5 R: S: O:	B: O: (3,4-epoxycyclohexylmethyl-3,4-epoxycyclohexene adj carboxylate) and ((Epon adj "1050") or (ECN adj ("1273" "1280" "9495")))	USP AT	2000/09/20 16:00	0
6 R: S: O:	B: I: 2: (Epon adj "1050") or (ECN adj ("1273" "1280" "9495")))	USP AT	2000/09/20 16:03	0
7 R: S: O:	B: O: ((Epon adj "1050") or (ECN adj ("1273" "1280" "9495"))) and (25\$acrylate \$25\$methacrylate)	USP AT	2000/09/20 16:04	0
8 R: S: O:	B: I: ((Epon adj "1050") or (ECN adj ("1273" "1280" "9495"))) and (acrylate \$methacrylate)	USP AT	2000/09/20 16:05	0
9 R: S: O:	B: I: 2: ((Epon adj "1050") or (ECN adj ("1273" "1280" "9495"))) and (acrylate \$methacrylate) and (cycloaliphatic adj epoxy)	USP AT	2000/09/20 16:36	0
10 R: S: O:	B: I: 8: 525/482.ccls.	USP AT	2000/09/20 17:20	0
11 R: S: O:	B: I: 8: sr adj "351"	USP AT	2000/09/20 18:23	0
12 R: S: O:	B: I: 2: 522/142,144.ccls.	USP AT	2000/09/20 18:24	0
13 R: S: O:	B: I: 2: (522/142 522/144).ccls.	USP AT	2000/09/20 18:24	0
14 R: S: O:	B: I: 2: (522/142 522/144).ccls. not 525/482.ccls.	USP AT	2000/09/20 18:24	0
15 R: S: O:	B: I: 2: (522/142 522/144).ccls. not 525/482.ccls.	USP AT	2000/09/20 19:48	0
16 R: S: O:	B: I: 3: bf-1000 or bf adj "1000"	USP AT	2000/09/20 18:44	0
17 R: S: O:	B: I: 4: R: 3: (430/280.1 or 522/2,170).ccls.	USP AT	2000/09/20 19:49	0
18 R: S: O:	B: I: 4: R: 3: (430/280.1 or 522/2,170).ccls. not (525/482 522/144,142).ccls.	USP AT	2000/09/22 15:59	0
19 R: S: O:	B: I: 1: ("6120974").PN.	USP AT	2000/09/21 08:58	0
20 R: S: O:	B: I: 1: ("5965325").PN.	USP AT	2000/09/21 08:58	0
21 R: S: O:	B: I: 6: (cresol novolac) near10 (epoxy or epoxid\$5)	USP AT	2000/09/21 11:35	0
22 R: S: O:	B: I: 5: (cresol novolac novolak or novolac or novolak) near10 (epoxy or epoxid\$5)	USP AT	2000/09/21 12:02	0

Type	Text	DBs	Time Stamp
B: 1 R: 5 S: 8 9	(cycloaliphatic epoxycyclohexene epoxycyclohexyl\$20) and (epoxid\$25 or epoxy\$25)	USP AT	2000/09/21 12:02
B: 5 R: 5 S: 9	(cresol novolac novolak or novolac or novalak) near10 (epoxy or epoxid\$5)	USP AT	2000/09/21 12:07
B: 5 R: 5 S: 6	(cycloaliphatic epoxycyclohexene epoxycyclohexyl\$15) and (epoxid\$20 or epoxy\$20)	USP AT	2000/09/21 12:03
B: 1 R: 5 S: 0	(cycloaliphatic epoxycyclohexene epoxycyclohexyl\$15) and (epoxid\$10 or epoxy)	USP AT	2000/09/21 12:04
B: 2 R: 2 S: 0	((cresol novolac novolak or novolac or novalak) near10 (epoxy or epoxid\$5)) and ((cycloaliphatic epoxycyclohexene epoxycyclohexyl\$15) and (epoxid\$10 or epoxy))	USP AT	2000/09/21 12:05
B: 1 R: 2 S: 1	((cresol novolac novolak or novolac or novalak) near10 (epoxy or epoxid\$5)) and ((cycloaliphatic epoxycyclohexene epoxycyclohexyl\$15) and (epoxid\$10 or epoxy)) and (acrylate or methacrylate or free adj radical)	USP AT	2000/09/21 12:06
B: 4 R: 5 S: 9	((cresol novolac novolak or novolac or novalak) near10 (epoxy or epoxid\$5)) same ((cresol novolac novolak or novolac or novalak) near10 (epoxy or epoxid\$5))	USP AT	2000/09/21 12:08

Type	Text	DBs	Time Stamp
B:7 R:3 S:3)	((cresol novolac novolak or novolac or novalak) near10 (epoxy or epoxid\$5) same ((cycloaliphatic epoxycyclohexene epoxycyclohexyl\$15) and (epoxid\$20 or epoxy\$20))	USP AT	2000/09/21 12:12
B:5 R:1 S:7)) and (acrylate or methacrylate or free adj radical)	(((cresol novolac novolak or novolac or novalak) near10 (epoxy or epoxid\$5) same ((cycloaliphatic epoxycyclohexene epoxycyclohexyl\$15) and (epoxid\$20 or epoxy\$20))	USP AT	2000/09/21 12:11
B:7 R:3 S:3)	((cresol novolac novolak or novolac or novalak) near10 (epoxy or epoxid\$5) same ((cycloaliphatic epoxycyclohexene epoxycyclohexyl\$10) and (epoxid\$10 or epoxy))	USP AT	2000/09/21 12:13
B:5 R:1 S:8)	(((cresol novolac novolak or novolac or novalak) near10 (epoxy or epoxid\$5) same ((cycloaliphatic epoxycyclohexene epoxycyclohexyl\$10) and (epoxid\$10 or epoxy))) and (methacrylate or acrylate or free adj radical\$3))	USP AT	2000/09/22 16:00
1 34 8)	("4555414").PN.	USP AT	2000/09/21 13:54

Type	Line #	Text	Search Text	DBs	Time Stamp	Comment	Error Definition	Error Type
1	S L1 B 8		("3742086").PN.	USP AT	2000/09/2 2 15:08			0
2	R L4 S 2 S 5		(430/280.1 or 522/2,170).ccls. not (525/482 522/144,142).ccls.	USP AT	2000/09/2 2 15:59			0
3	B L4 R 1 S 3 S 6		(((cresol novolac novolak or novolac or novolak) near 10 (epoxy or epoxid\$5)) same ((cycloaliphatic epoxycyclohexene epoxycyclohexyl\$10) and (epoxid\$10 or epoxy))) and (methacrylate or acrylate or free adj radical\$3).	USP AT	2000/09/2 2 16:00			0
4	B L4 R 2 S 4 S 8		42 and 43	USP AT	2000/09/2 2 16:01			0

(FILE 'HOME' ENTERED AT 16:13:27 ON 20 SEP 2000)

FILE 'REGISTRY' ENTERED AT 16:13:44 ON 20 SEP 2000

L1 1 S CYRACURE AND 6105
L2 6 S EPON AND 1050
L3 0 S EPON 1050

FILE 'CA' ENTERED AT 16:15:00 ON 20 SEP 2000

L4 1632 S L1
L5 32 S L4 AND (NOVOLAC OR CRESOL)
L6 4 S L5 AND (FREE RADICAL? OR ACRYLATE? OR METHACRYLATE?)

FILE 'USPATFULL' ENTERED AT 16:17:02 ON 20 SEP 2000

L7 129 S L6
L8 0 S L1(P) (NOVOLAC OR CRESOL) AND FREE RADICAL?

STN search
ON SN 09-481654
Reissue

C. Chamber

Leave in file

Trying 3106016892...Open

```
Welcome to STN International! Enter x:x  
LOGINID:sssptaul156cxh  
PASSWORD:  
TERMINAL (ENTER 1, 2, 3, OR ?):2
```

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America

NEWS 2 Jun 2 KOREAN PATENTS NOW IN CAS DATABASES

NEWS 3 Jun 20 WIPO/PCT Patents Fulltext Database now on STN

NEWS 4 Jun 28 CAS covers Web-distributed preprints

NEWS 5 Jul 7 Patent Full-text Cluster, PNTTEXT, introduced

NEWS 6 Jul 27 EUROPATFULL - loading of backlog data

NEWS 7 Jul 27 MORE FREQUENT UPDATES FOR DERWENT WORLD PATENTS INDEX IN 2000

NEWS 8 Jul 27 Derwent Journal Of Synthetic Methods Reloaded with New Data

NEWS 9 Jul 27 DERWENT WORLD PATENTS INDEX: FAST TRACK RELEASE OF EQUIVALENT PATENTS

NEWS 10 Aug 21 Instant Access to FDA Regulatory Information with DIOGENES

NEWS 11 Aug 21 CAS patent coverage expanded

NEWS 12 Aug 24 TABULATE Now Available in More STN Databases

NEWS 13 Aug 28 MEDLINE from 1958 to Date - Only on STN

NEWS 14 Sep 7 DGENE GETSIM ALERT: Similarity Current-Awareness Searching of Biosequences

NEWS 15 Sep 11 Textile Technology Digest (TEXTILETECH) now available on STN

NEWS EXPRESS FREE UPGRADE 5.0D FOR STN EXPRESS 5.0 WITH DISCOVER! (WINDOWS) NOW AVAILABLE

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS INTER General Internet Information

NEWS LOGIN Welcome Banner and News Items

NEWS PHONE Direct Dial and Telecommunication Network Access to STN

NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

FILE 'HOME' ENTERED AT 16:13:27 ON 20 SEP 2000

=> file req

COST IN U.S. DOLLARS
FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 10:15:44 ON 20 SEP 2000
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGE TERMS" FOR DETAILS.
COPYRIGHT (C) 2000 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 19 SEP 2000 HIGHEST RN 289697-49-0
DICTIONARY FILE UPDATES: 19 SEP 2000 HIGHEST RN 289697-49-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 11, 2000

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT
for details.

=> s cyracure and 6105

44 CYRACURE
34 6105
L1 1 CYRACURE AND 6105

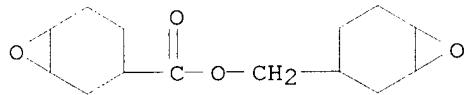
=> d

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2000 ACS
RN 25085-98-7 REGISTRY
CN 7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 7-oxabicyclo[4.1.0]hept-3-ylmethyl ester, homopolymer (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 7-oxabicyclo[4.1.0]hept-3-ylmethyl ester, polymers (8CI)
OTHER NAMES:
CN (3,4-Epoxy cyclohexyl)methyl 3,4-epoxy cyclohexylcarboxylate polymer
CN 3,4-Epoxy cyclohexylmethyl 3',4'-epoxy cyclohexane carboxylate polymer
CN 3,4-Epoxy cyclohexylmethyl 3,4-epoxy cyclohexane carboxylate homopolymer
CN 3,4-Epoxy cyclohexylmethyl 3,4-epoxy cyclohexane carboxylate polymer
CN 3,4-Epoxy cyclohexylmethyl 3,4-epoxy cyclohexane carboxylate resin
CN 3,4-Epoxy cyclohexylmethyl-3',4'-epoxy cyclohexane carboxylate homopolymer
CN Adeka Optomer ERL 4221
CN Adeka Optomer KRM 2110
CN Araldite CY 179
CN Bakelite ERL 4221
CN Bakelite ERL 4221G
CN Bakelite ERL 4421
CN CEL 2021P
CN Celloxide 2021
CN Celloxide 2021A
CN Celloxide 2021P
CN Celloxide 2201
CN CH 221
CN Chissonox 221
CN Chissonox CX 221
CN CP 1608
CN CX 221
CN CY 179
CN **Cyracure UVR 6100**
CN **Cyracure UVR 6105**
CN **Cyracure UVR 6110**
CN Degacure K 126
CN Degussa 126
CN Diepoxid 126
CN Epikote 171
CN ER 4221
CN ERL 4211

CN ERL 4221
CN ERL 4221D
CN ERL 4221E
CN ERL 4421
CN ERLA 4221
CN K 126
CN KRM 2110
CN Poly[(3, 4-epoxycyclohexyl)methyl 3, 4-epoxycyclohexanecarboxylate]
CN SarCat K 126
CN Ucar 4221
CN Unox 221
CN Unox 4221
CN UP 632
CN Uvacure 1500
CN **UVR 6105**
CN UVR 6110
DR 9083-95-8, 11120-79-9, 125053-37-4, 121396-47-2, 129773-39-3, 95078-13-0,
95078-14-1, 50809-37-5, 50861-60-4, 61489-54-1, 65430-69-5, 111483-58-0,
137607-28-4, 146123-76-4, 30350-17-5, 39354-66-0, 52725-58-3,
189201-55-6,
216496-08-1, 251369-29-6
MF (C₁₄ H₂₀ O₄)_x
CI PMS, COM
PCT Epoxy resin, Polyester
LC STN Files: BIOSIS, CA, CAPLUS, CHEMLIST, CIN, IFICDB, IFIPAT, IFIUDB,
PROMT, TOXLINE, TOXLIT, USPATFULL
Other Sources: NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

CM 1

CRN 2386-87-0
CMF C₁₄ H₂₀ O₄



1589 REFERENCES IN FILE CA (1967 TO DATE)
119 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1591 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> s epon and 1050

535 EPON
182 1050
L2 6 EPON AND 1050

=> s epon 1050

535 EPON
182 1050
L3 0 EPON 1050
(EPON(W) 1050)

=> d 12 6

L2 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2000 ACS
RN 25068-38-6 REGISTRY
CN Phenol, 4,4'-(1-methylethyldene)bis-, polymer with (chloromethyl)oxirane

OTHER NAMES:

CN 1-Chloro-2,3-epoxypropane-4,4'-isopropylidenediph 1 polymer
CN 164SV
CN 2,2-Bis(4-hydroxyphenyl)propane-epichlorohydrin copolymer
CN 2,2-Bis(4-hydroxyphenyl)propane-epichlorohydrin polymer
CN 2,2-Bis(hydroxyphenyl)propane-epichlorohydrin copolymer
CN 2,2-Bis(p-hydroxyphenyl)propane-epichlorohydrin condensate
CN 2,2-Bis(p-hydroxyphenyl)propane-epichlorohydrin copolymer
CN 2,2-Bis(p-hydroxyphenyl)propane-epichlorohydrin polymer
CN 2,2-Diphenylpropane-epichlorohydrin polymer
CN 4,4'-Dihydroxydiphenylpropane-epichlorohydrin polymer
CN 4,4'-Isopropylidenediphenol-epichlorohydrin polymer
CN 684EK40
CN A 39
CN A 39 (polymer)
CN AA 2662
CN AD 301
CN Adbond 5300A
CN Adeka EP 4300
CN Adeka EP 5100-75X
CN Adeka EP 5700
CN Adeka EP 5900
CN Adeka Optomer KRM 2410
CN AER 331
CN AER 337
CN AER 661
CN AER 661x-75
CN AER 664
CN AER 664P
CN AER 667
CN AER 669
CN Aicarpox BL
CN Aicarpox BL 100
CN Aicarpox BS
CN Aicarpox BS 001
CN Aicarpox BS 001OG
CN Aicarpox BS 001SS
CN Aicarpox BS 004
CN Aicarpox BS 004S
CN AP 2
CN Araldite 471X75
CN Araldite 527
CN Araldite 6004
CN Araldite 6005
CN Araldite 6010
CN Araldite 6020
CN Araldite 6071
CN Araldite 6084
CN Araldite 6097
CN Araldite 6099
CN Araldite 6100
CN Bisphenol A-Epon 829 copolymer
CN Epiclon 1050
CN Epiclon 1050-70
CN Epon 1001
CN Epon 1001B80
CN Epon 1001F
CN Epon 1001X75
CN Epon 1001X80
CN Epon 1002
CN Epon 1002F
CN Epon 1004
CN Epon 1004F
CN Epon 1007

CN Epon 100/r
CN Epon 1009
CN Epon 1009F
CN Epon 1010
CN Epon 1104
CN Epon 2001
CN Epon 2002
CN Epon 2004
CN Epon 201
CN Epon 2042
CN Epon 287
CN Epon 291
CN Epon 384
CN Epon 820
CN Epon 825
CN Epon 826
CN Epon 827
CN Epon 828
CN Epon 828LS
CN Epon 828RS
CN Epon 829
CN Epon 830
CN Epon 834
CN Epon 834X90
CN Epon 836
CN Epon 840
CN Epon 880
CN Epon 9102
CN Epon 9302
CN Epon DPS 2012
CN Epon DPS 2014
CN Epon DRH 201
CN Eponol 53
CN Eponol 53B40
CN Eponol 53L32
CN Eponol 55
CN Eponol 55B40
CN Eponol 55BQ20
CN Eponol 55L32

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY

AR 26402-79-9

DR 8000-31-5, 9049-54-1, 9050-21-9, 9081-91-8, 9083-76-5, 9084-94-0,
9086-62-8, 9087-26-7, 9087-76-7, 11097-80-6, 11098-13-8, 11098-40-1,
11100-23-5, 11108-41-1, 11120-31-3, 11121-19-0, 11126-36-6, 167972-06-7,
161937-12-8, 128281-71-0, 127176-80-1, 127176-81-2, 53238-86-1,
53238-87-2, 53239-67-1, 53239-68-2, 53570-97-1, 53570-98-2, 53681-78-0,
53858-93-8, 54018-73-4, 58052-05-4, 58128-38-4, 58392-89-5, 58392-92-0,
58516-14-6, 58572-71-7, 59029-19-5, 125147-87-7, 56258-35-6, 56449-43-5,
56509-48-9, 57107-66-1, 57284-90-9, 57534-21-1, 57693-04-6, 123939-44-6,
55464-96-5, 55584-55-9, 55585-07-4, 55818-73-0, 59459-14-2, 59948-36-6,
60202-19-9, 60267-31-4, 60382-89-0, 60606-56-6, 120146-74-9, 120797-43-5,
121273-37-8, 63799-24-6, 63993-57-7, 63993-58-8, 64086-14-2, 64086-16-4,
64176-52-9, 64176-61-0, 64176-66-5, 64177-03-3, 62601-75-6, 62601-76-7,
62887-23-4, 63055-40-3, 63172-55-4, 132822-20-9, 132893-73-3, 97709-01-8,
99400-50-7, 95327-25-6, 96420-31-4, 96510-68-8, 103599-14-0, 104364-97-8,
104491-99-8, 105521-57-1, 66995-96-8, 67185-62-0, 114013-37-5,

50642-36-9,

50642-55-2, 50642-78-9, 51158-20-4, 51273-81-5, 51329-73-8, 51393-99-8,
51394-03-7, 60800-54-6, 60831-77-8, 60894-16-8, 61036-82-6, 61287-42-1,
61356-27-2, 61711-38-4, 61991-18-2, 62169-28-2, 62169-29-3, 108556-05-4,
108728-21-8, 65931-38-6, 65931-39-7, 37184-50-2, 37184-52-4, 37208-29-0,
37217-92-8, 37230-74-3, 37243-66-6, 37243-67-7, 37251-33-5, 37265-21-7,
37270-82-9, 37291-75-1, 37293-07-5, 37294-18-1, 37305-82-1, 37307-45-2,
37317-45-6, 37325-21-6, 37338-63-9, 37342-17-9, 37345-34-9, 37348-56-4,

37348-57-5, 37357-73-6, 37360-93-3, 11151, 55-3, 15513, 20-7,
138361-18-9,
69899-40-7, 701[REDACTED]-83-8, 70213-44-4, 71965-91-8, 514-40-0, 73413-19-1,
74564-76-4, 144855-66-3, 70726-45-3, 142540-11-2, 75831-44-6, 78564-77-9,
150825-32-4, 79585-43-6, 144046-24-2, 144046-25-3, 85537-69-5,

86090-60-0,
82197-12-4, 82197-46-4, 83202-85-1, 80702-61-0, 81458-12-0, 84286-97-5,
84683-04-5, 84931-29-3, 89750-00-5, 91727-28-5, 91727-29-6, 88385-37-9,
88528-19-2, 88651-18-7, 39277-59-3, 39288-99-8, 39296-08-7, 39296-09-8,
39296-11-2, 39296-15-6, 39315-77-0, 39349-91-2, 39354-86-4, 39362-25-9,
39362-45-3, 39373-81-4, 39378-29-5, 39378-55-7, 39389-49-6, 39405-18-0,
39412-57-2, 39419-66-4, 39453-22-0, 39454-54-1, 39454-69-8, 39470-62-7,
42612-34-0, 42618-03-1, 52038-45-6, 52051-70-4, 52051-82-8, 52052-16-1,
52232-05-0, 52232-75-4, 52276-55-8, 52365-33-0, 52519-66-1, 52519-67-2,
52627-94-8, 52907-38-7, 53027-88-6, 53127-14-3, 53200-30-9, 101027-12-7,
107991-47-9, 110158-22-0, 117216-90-7, 118340-04-8, 157321-42-1,
160674-45-3, 179607-24-0, 183581-68-2, 187619-11-0, 222835-65-6,
222835-66-7, 222835-68-9, 222835-69-0, 222835-70-3, 222835-72-5,
222835-74-7, 222835-77-0

MF (C15 H16 O2 . C3 H5 Cl O)x

CI PMS, COM

PCT Epoxy resin

LC STN Files: BIOBUSINESS, BIOSIS, CA, CANCERLIT, CAPLUS, CHEMCATS,
CHEMLIST, CIN, CSCHEM, CSNB, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS,
NIOSHTIC, PDLCOM*, PIRA, PLASPEC*, PROMT, RTECS*, TOXLINE, TOXLIT,
USPATFULL

(*File contains numerically searchable property data)

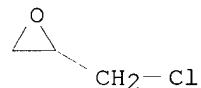
Other Sources: DSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

CM 1

CRN 106-89-8

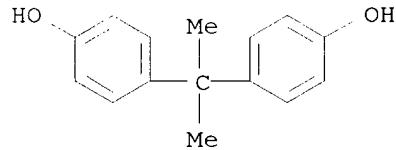
CMF C3 H5 Cl O



CM 2

CRN 80-05-7

CMF C15 H16 O2



22927 REFERENCES IN FILE CA (1967 TO DATE)

3693 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

22950 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> file ca

COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE
ENTRY
25.04
TOTAL
SESSION
25.19

FILE 'CA' ENTERED AT 10:55:00 ON 20 SEP 2000
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2000 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1967 - 15 Sep 2000 VOL 133 ISS 13
FILE LAST UPDATED: 15 Sep 2000 (20000915/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

Now you can extend your author, patent assignee, patent information, and title searches back to 1907. The records from 1907-1966 now have this searchable data in CAOLD. You now have electronic access to all of CA: 1907 to 1966 in CAOLD and 1967 to the present in CA on STN.

=> d his

(FILE 'HOME' ENTERED AT 16:13:27 ON 20 SEP 2000)

FILE 'REGISTRY' ENTERED AT 16:13:44 ON 20 SEP 2000

L1 1 S CYRACURE AND 6105
L2 6 S EPON AND 1050
L3 0 S EPON 1050

FILE 'CA' ENTERED AT 16:15:00 ON 20 SEP 2000

=> s l1

L4 1632 L1

=> s l4 and (novolac or cresol)

1288 NOVOLAC
28558 CRESOL
L5 32 L4 AND (NOVOLAC OR CRESOL)

=> s l5 and (free radical? or acrylate? or methacrylate?)

755362 FREE
233059 RADICAL?
55958 FREE RADICAL?
(FREE(W)RADICAL?)
127658 ACRYLATE?
143880 METHACRYLATE?
L6 4 L5 AND (FREE RADICAL? OR ACRYLATE? OR METHACRYLATE?)

=> d all 1-4

L6 ANSWER 1 OF 4 CA COPYRIGHT 2000 ACS
AN 125:88164 CA
TI Hydrolytic stable glass fiber-reinforced polyester resins

IN van Heimenda, Jan
PA General Electric Company, USA
SO Eur. Pat. Appl. 10 pp.
CODEN: EPXXDW

DT Patent

LA English

IC ICM C08L067-02

ICS C08L063-00

CC 37-6 (Plastics Manufacture and Processing)

Section cross-reference(s): 38

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 712899	A1	19960522	EP 1994-118257	19941119
	EP 712899	B1	19990602		
	R: DE, ES, FR, GB, IT, NL				
	ES 2131620	T3	19990801	ES 1994-118257	19941119
	US 5731390	A	19980324	US 1995-434132	19950502

PRAI EP 1994-118257 19941119

AB A thermoplastic resin compn. having improved hydrolytic stability having in admixt. a satd. polyester resin such as poly(butylene terephthalate), an epoxy **novolac**, a glass fiber reinforcing filler and a catalyst such as sodium stearate. Preferably the polyester component is selected from the group consisting of poly(butylene terephthalate), poly(ethylene terephthalate), poly(1,4-cyclohexanediethanol terephthalate) and blends of any of the foregoing, and is present in an amt. ranging from .apprx.15-80% based on the wt. of the total compn. The preferred epoxy compd. is an ortho **cresol novolac** epoxy resin.

ST hydrolytic stable polyester epoxy glass composite; impact resistant polyester glass extrusion compn; molding compn **novolac** epoxy polyester glass

IT Fireproofing agents

Impact-resistant materials

(prodn. of hydrolytic stable glass fiber-reinforced polyester resins)

IT Glass fibers, uses

RL: MOA (Modifier or additive use); USES (Uses)

(prodn. of hydrolytic stable glass fiber-reinforced polyester resins)

IT Polyesters, uses

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(prodn. of hydrolytic stable glass fiber-reinforced polyester resins)

IT Phenolic resins, uses

RL: MOA (Modifier or additive use); USES (Uses)

(epoxy, novolak, ECN-type; prodn. of hydrolytic stable glass fiber-reinforced polyester resins)

IT Rubber, synthetic

RL: MOA (Modifier or additive use); USES (Uses)

(ethylene-glycidyl **methacrylate**-Me **acrylate**, impact modifier; prodn. of hydrolytic stable glass fiber-reinforced polyester resins)

IT Plastics, reinforced

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(glass fiber-, prodn. of hydrolytic stable glass fiber-reinforced polyester resins)

IT Rubber, butadiene-styrene, uses

RL: MOA (Modifier or additive use); USES (Uses)

(hydrogenated, block, triblock, impact modifier; prodn. of hydrolytic stable glass fiber-reinforced polyester resins)

IT Epoxy resins, uses

RL: MOA (Modifier or additive use); USES (Uses)

(phenolic, novolak, ECN-type; prodn. of hydrolytic stable glass fiber-reinforced polyester resins)

IT 822-16-2, Sodium stearate

IT RL: CAT (Catalyst use); USES (uses)
(prodn. of hydrolytic stable glass fiber-reinforced polyester resins)

IT 25085-98-7, ERL 221
RL: MOA (Modifier or additive use); USES (Uses)
(prodn. of hydrolytic stable glass fiber-reinforced polyester resins)

IT 24936-69-4, Poly(1,4-cyclohexanedimethanol terephthalate) 24968-12-5,
Poly(butylene terephthalate) 25037-99-4, 1,4-Cyclohexanedimethanol-
terephthalic acid copolymer 25038-59-9, Poly(ethylene terephthalate),
uses 26062-94-2, Poly(butylene terephthalate)
RL: POF (Polymer in formulation); TEM (Technical or engineered material
use); USES (Uses)
(prodn. of hydrolytic stable glass fiber-reinforced polyester resins)

IT 106107-54-4
RL: MOA (Modifier or additive use); USES (Uses)
(rubber, hydrogenated, block, triblock, impact modifier; prodn. of
hydrolytic stable glass fiber-reinforced polyester resins)

IT 51541-08-3, Ethylene-glycidyl **methacrylate**-methyl
acrylate copolymer
RL: MOA (Modifier or additive use); USES (Uses)
(rubber, impact modifier; prodn. of hydrolytic stable glass
fiber-reinforced polyester resins)

L6 ANSWER 2 OF 4 CA COPYRIGHT 2000 ACS

AN 107:178176 CA

TI Use of aromatic amines for setting epoxide resins

IN Nichols, Gus

PA USA

SO U.S., 9 pp.

CODEN: USXXAM

DT Patent

LA English

IC ICM C08G059-54

ICS C08G059-68

NCL 528088000

CC 42-9 (Coatings, Inks, and Related Products)

Section cross-reference(s): 25, 27, 37

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4668757	A	19870526	US 1984-593592	19840326
AB	Arom. amines and their alkyl, imine, amide, and/or imide group-contg. derivs. are used with epoxy resins and catalysts comprising phenols, cresols, etc., in the prepn. of compns. which cure at ambient temps. The compns. are useful as 2-component coating or casting systems. Condensing 2.0 mol 2,4-bis(p-aminobenzyl)aniline with 3.0 mol phthalic anhydride to remove 3.0 mol H ₂ O gave an imide-amine, which (47 g) was mixed with 28 g iso-BuCOMe and 25 g toluene to give a soln. The soln. was mixed an equal amt. of a soln. comprising Epon 828 51.3, o- cresol 5, toluene 12, and iso-BuCOMe 31.7 g to give a coating compn. which had pot life 1.5 h and gave coatings which were tackfree after 3 h and hard after 12 h. Without o- cresol , the films remained tacky for weeks.				
ST	amine arom hardening epoxy coating; phenol catalyst hardening epoxy amine; cresol catalyst hardening epoxy amine; amide amine arom hardening epoxy; imide amine arom hardening epoxy; crosslinking epoxy arom amine catalyst; imine amine arom hardening epoxy				
IT	Crosslinking agents (arom. amines, for epoxy resins in presence of phenol catalysts)				
IT	Phenols, uses and miscellaneous RL: CAT (Catalyst use); USES (Uses) (catalysts, for curing of epoxy resins by arom. amines)				
IT	Epoxy resins, uses and miscellaneous RL: USES (Uses) (curing of, by arom. amines, catalysts for)				
IT	Coating materials				

(epoxy resin-arom. amine compns., curing or, catalysts for,
IT Crosslinking catalysts
(phenols, for epoxy resins by arom. amines)
IT Amides, uses and miscellaneous
Amines, uses and miscellaneous
RL: USES (Uses)
(aryl, curing by, of epoxy resins, catalysts for)
IT Crosslinking
(room-temp., of epoxy resins by arom. amines in presence of phenols)
IT 95-48-7, o-Cresol, uses and miscellaneous 95-57-8,
o-Chlorophenol 1300-71-6, Xylenol 25154-52-3, Nonylphenol
28805-86-9, Butylphenol
RL: CAT (Catalyst use); USES (Uses)
(catalysts, for curing of epoxy resins with arom. amines)
IT 62-53-3D, Aniline, reaction products with acrylic compds. 64-18-6D,
Formic acid, reaction products with arom. amines 79-06-1D, reaction
products with arom. amines 79-14-1D, Hydroxyacetic acid, reaction
products with arom. amines 80-08-0D, Bis(4-aminophenyl)sulfone,
reaction
products with arom. dicarboxylic anhydrides 85-42-7D, Hexahydrophthalic
anhydride, reaction products with arom. amines 85-43-8D,
Tetrahydrophthalic anhydride, reaction products with arom. amines
85-44-9D, reaction products with arom. amines 101-77-9D, reaction
products with carboxylic anhydrides 101-80-4D, Bis(4-aminophenyl)
ether,
reaction products with dicarboxylic anhydrides and acrylic compds.
107-13-1D, reaction products with arom. amines 108-31-6D, Maleic
anhydride, reaction products with arom. amines 108-45-2D,
m-Phenylenediamine, reaction products with acrylic compds. 110-26-9D,
Methylenebisacrylamide, reaction products with arom. amines 143-07-7D,
Lauric acid, reaction products with arom. amines 149-57-5D,
2-Ethylhexanoic acid, reaction products with arom. amines 818-61-1D,
reaction products with arom. amines 15625-89-5D, reaction products with
arom. amines 17831-71-9D, reaction products with arom. diamines
25377-73-5D, Dodecenylsuccinic anhydride, reaction products with arom.
amines 25584-83-2D, Hydroxypropyl **acrylate**, reaction products
with arom. diamines 25834-80-4D, 2,4-Bis(4-aminobenzyl)aniline,
reaction
products with carboxylic acids and anhydrides and acrylic compds.
110712-35-1D, reaction products with tetraethylene glycol diacrylate and
hydroxypropyl **acrylate**
RL: USES (Uses)
(curing by, of epoxy resins in presence of phenol catalysts)
IT 25085-98-7
RL: USES (Uses)
(curing of, by arom. amines)
IT 25068-38-6 37348-52-0
RL: USES (Uses)
(curing of, by arom. amines, catalysts for)
IT 110712-34-0 110712-36-2 110742-26-2
RL: USES (Uses)
(curing of, catalysts for)
IT 43078-52-0P 110712-35-1P 110742-25-1P
RL: PREP (Preparation)
(manuf. of, for curing of epoxy resins in presence of phenol
catalysts)
IT 101-80-4
RL: RCT (Reactant)
(reaction of, with Me **acrylate**)
IT 552-30-7
RL: RCT (Reactant)
(reaction of, with methylenedianiline)
IT 96-33-3, Methyl **acrylate**
RL: RCT (Reactant)
(reaction of, with oxydianiline)

L6 ANSWER 3 OF 4 COPYRIGHT 2000 ACS
AN 107:124699 CA
TI Process for producing a liquid jet recording head
IN Noguchi, Hiromichi
PA Canon K. K., Japan
SO U.S., 11 pp.
CODEN: USXXAM
DT Patent
LA English
IC ICM B44C001-22
ICS B29C017-08; C03C015-00; C03C025-06
NCL 156655000
CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4657631	A	19870414	US 1985-811460	19851220
	US 4775445	A	19881004	US 1987-1174	19870107

PRAI JP 1984-274689 19841228
US 1985-811460 19851220

AB A liq. jet recording head comprised of a liq. flow path, a liq. ejection port, and a liq. ejection energy-generating member arranged along the liq. flow path is comprised of forming a solid layer comprised of pos. photoresist on a substrate in accordance with the pattern of the liq. flow path, filling up the recess on the substrate where the solid layer is not present with a liq. flow path wall-forming material, and removing the solid layer from the substrate. The recording head thus produced is inexpensive, precise, highly reliable, and excellent in mech. strength and chem. resistance. A pos. photoresist layer (OZATEC R225) was formed on a glass substrate provided with electrothermal transducers as liq. ejecting energy-generating members, exposed through a photomask to UV, developed with an aq. caustic soda soln., sputtered with a Cr wall layer, electrolytically plated with a Ni wall layer, and treated with an EtOH-dodecylbenzenesulfonic acid mixt. to remove the resist layer to give a liq. jet recording head.

ST ink jet recording head prepns; photosensitive resin ink jet head; pos photoresist ink jet head

IT Printing apparatus
(ink-jet, heads, photofabrication of, using pos. photoresists)

IT 57835-99-1

RL: USES (Uses)
(curable resin compns. contg. epoxy resins and, for photofabrication of ink-jet recording heads using pos. photoresist)

IT 37189-54-1 39701-29-6 80940-81-4, Acrysirup SY-105 **95078-13-0**
95078-16-3 110158-77-5

RL: USES (Uses)
(curable resin compns. contg., for photofabrication of ink-jet recording heads using pos. photoresist)

IT 110158-67-3

RL: USES (Uses)
(in photofabrication of ink-jet recording heads)

IT 7440-02-0, Nickel, uses and miscellaneous

RL: USES (Uses)
(ink-jet recording heads with walls of chromium and, photofabrication of, using pos. photoresist)

IT 7440-47-3, Chromium, uses and miscellaneous

RL: USES (Uses)
(ink-jet recording heads with walls of nickel and, photofabrication of,

using pos. photoresist,
IT 9003-09-2, Poly(ethyl vinyl ether) 9003-32-1, Poly(ethyl acrylate)
RL: USES (Uses)
(pos. photoresist contg. trihydroxybenzophenone naphthoquinonediazidosulfonate and, in photofabrication of ink-jet recording heads)

IT 107853-40-7
RL: USES (Uses)
(pos. photoresist from cresol-formaldehyde copolymer and, in photofabrication of ink-jet recording heads)

IT 9016-83-5
RL: USES (Uses)
(pos. photoresist from trihydroxybenzophenone naphthoquinonediazidosulfonate and, in photofabrication of ink-jet recording heads)

L6 ANSWER 4 OF 4 CA COPYRIGHT 2000 ACS

AN 106:103465 CA

TI Photocurable epoxy resin potting compositions

IN Yamase, Yukio; Takahashi, Eiji

PA Nippon Soda Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C08G059-34

ICS C08G059-18; C08G059-68; C08L063-08

ICA G09F009-35

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 76

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 61231022	A2	19861015	JP 1985-71700	19850404
AB	Compns. comprise butadiene polymers contg. av. 1.5 epoxy groups/mol. 10-70, .gtoreq.1 epoxy resin selected from alicyclic, bisphenol A-based, bisphenol F-based, novolac, and hydrogenated bisphenol A epoxy resins 30-90, a light-sensitive arom. onium salt 0.1-5.0, a (meth)acrylic ester 5-50, and a polymerizable substituent-contg. sensitizer 0.001-0.5 parts. The compns. have good adhesion, temp. shock resistance, and liq. crystal compatibility and are esp. useful as potting compns. for liq. crystal cells. Thus, a mixt. of epoxidized 1,2-polybutadiene (BF-1000) 50, an alicyclic epoxy resin (ERL-4299) 50, triphenylsulfonium hexafluoroantimonate (50% propylene carbonate soln.) 1, trimethylolpropane triacrylate 20, and vinylanthracene 0.05 part was blended to give a compn. having pot-life >60 days, hardening time 2.0 s, pencil hardness 4 H, glass transition temp. 80.0.degree., and good crosslinking properties.				
ST	liq crystal epoxy resin potting; photocurable epoxy resin potting compn; polybutadiene epoxidized potting compn; methylolpropane acrylate epoxy resin potting				
IT	Light-sensitive materials (arom. onium salts, epoxidized polybutadiene-epoxy resin blends contg. potting compns. for liq. crystal cells)				
IT	Potting compositions (epoxidized polybutadiene-epoxy resin blends contg. light-sensitive arom. onium salts and sensitizers and (meth)acrylic esters, for liq. crystal cells)				
IT	Onium compounds RL: USES (Uses) (photocurable epoxy potting compns. contg., for liq. crystal cells)				
IT	Epoxy resins, uses and miscellaneous				

RL: USES (Uses)
 (potting compns. contg., for liq. crystals)
 IT Semiconductor devices
 (potting compns. for, epoxidized polybutadiene-epoxy resin blends as)
 IT Rubber, nitrile, compounds
 RL: USES (Uses)
 (carboxy-terminated, polymers with epoxy resins, as photocurable
 potting compns. for liq. crystals)
 IT Rubber, butadiene, compounds
 RL: USES (Uses)
 (of 1,2-configuration, epoxidized, potting compns. contg., for liq.
 crystals)
 IT Crosslinking catalysts
 (photochem., vinylanthracene, epoxidized polybutadiene-epoxy resin
 blends contg., potting compns. for liq. crystal cells)
 IT 106-91-2, Glycidyl **methacrylate** 15625-89-5 29570-58-9
 RL: USES (Uses)
 (photocurable epoxy potting compns. contg., for liq. crystal cells)
 IT **25085-98-7**, Celloxide 2021 25085-99-8 29797-71-5, ERL-4299
 67185-56-2, Epikote
 RL: USES (Uses)
 (potting compns. contg., for liq. crystal cells)
 IT 9003-17-2D, epoxidized 88506-60-9
 RL: USES (Uses)
 (potting compns. contg., for liq. crystals)
 IT 9003-18-3
 RL: USES (Uses)
 (rubber, carboxy-terminated, polymers with epoxy resins, as
 photocurable potting compns. for liq. crystals)
 IT 9003-17-2
 RL: USES (Uses)
 (rubber, of 1,2-configuration, epoxidized, potting compns. contg., for
 liq. crystals)
 IT 313-39-3, Diphenyliodonium tetrafluoroborate 1108-21-0,
 Triphenylphenacylphosphonium tetrafluoroborate
 RL: USES (Uses)
 (sensitizer, for photocurable epoxy potting compns. for liq. crystal
 cells)
 IT 30521-30-3, Vinylanthracene 106329-98-0 107109-21-7
 RL: USES (Uses)
 (sensitizers, epoxidized polybutadiene-epoxy resin blends contg.,
 potting compns. for liq. crystal cells)

=> d his

(FILE 'HOME' ENTERED AT 16:13:27 ON 20 SEP 2000)

FILE 'REGISTRY' ENTERED AT 16:13:44 ON 20 SEP 2000

L1 1 S CYRACURE AND 6105
 L2 6 S EPON AND 1050
 L3 0 S EPON 1050

FILE 'CA' ENTERED AT 16:15:00 ON 20 SEP 2000

L4 1632 S L1
 L5 32 S L4 AND (NOVOLAC OR CRESOL)
 L6 4 S L5 AND (FREE RADICAL? OR ACRYLATE? OR METHACRYLATE?)

=> file uspatful

COST IN U.S. DOLLARS
 FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
18.18	43.37

CA SUBSCRIBER PRICE

FILE 'USPATFULL' ENTERED AT 16:17:02 ON 20 SEP 2000
CA INDEXING COPYRIGHT (C) 2000 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 19 Sep 2000 (20000919/PD)
FILE LAST UPDATED: 19 Sep 2000 (20000919/ED)
HIGHEST PATENT NUMBER: US6122767
CA INDEXING IS CURRENT THROUGH 19 Sep 2000 (20000919/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 19 Sep 2000 (20000919/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jul 2000
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jul 2000

>>> Page images are available for patents from 1/1/1997. Current <<<
>>> week patent text is typically loaded by Thursday morning and <<<
>>> page images are available for display by the end of the day. <<<
>>> Image data for the /FA field are available the following week. <<<

>>> Complete CA file indexing for chemical patents (or equivalents) <<<
>>> is included in file records. A thesaurus is available for the <<<
>>> USPTO Manual of Classifications in the /NCL, /INCL, and /RPCL <<<
>>> fields. This thesaurus includes catchword terms from the <<<
>>> USPTO/MOC subject headings and subheadings. Thesauri are also <<<
>>> available for the WIPO International Patent Classification <<<
>>> (IPC) Manuals, editions 1-6, in the /IC1, /IC2, /IC3, /IC4, <<<
>>> /IC5, and /IC (/IC6) fields, respectively. The thesauri in <<<
>>> the /IC5 and /IC fields include the corresponding catchword <<<
>>> terms from the IPC subject headings and subheadings. <<<

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 16

482 L1
5454 NOVOLAC
23940 CRESOL
948540 FREE
160754 RADICAL?
36655 FREE RADICAL?
(FREE (W) RADICAL?)
83738 ACRYLATE?
77339 METHACRYLATE?
L7 129 L5 AND (FREE RADICAL? OR ACRYLATE? OR METHACRYLATE?)

=> s l1(p) (novolac or cresol) and free radical?

482 L1
5454 NOVOLAC
23940 CRESOL
0 L1(P) (NOVOLAC OR CRESOL)
948540 FREE
160754 RADICAL?
36655 FREE RADICAL?
(FREE (W) RADICAL?)
L8 0 L1(P) (NOVOLAC OR CRESOL) AND FREE RADICAL?

=> d his

(FILE 'HOME' ENTERED AT 16:13:27 ON 20 SEP 2000)

FILE 'REGISTRY' ENTERED AT 16:13:44 ON 20 SEP 2000

L1 1 S CYRACURE AND 6105
L2 6 S EPOXY AND 1050
L3 0 S EP[REDACTED] 1050

FILE 'CA' ENTERED AT 16:15:00 ON 20 SEP 2000

L4 1632 S L1
L5 32 S L4 AND (NOVOLAC OR CRESOL)
L6 4 S L5 AND (FREE RADICAL? OR ACRYLATE? OR METHACRYLATE?)

FILE 'USPATFULL' ENTERED AT 16:17:02 ON 20 SEP 2000

L7 129 S L6
L8 0 S L1(P) (NOVOLAC OR CRESOL) AND FREE RADICAL?

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.14	45.51
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.12

STN INTERNATIONAL LOGOFF AT 16:18:03 ON 20 SEP 2000

=> d his

(FILE 'HOME' ENTERED AT 13:38:17 ON 21 SEP 2000)

FILE 'REGISTRY' ENTERED AT 13:38:22 ON 21 SEP 2000

L1 24 S ERL 4221
L2 1 S ERL 4221/CN
L3 0 S DEN 428
L4 241 S DEN 438
L5 1 S DEN 438/CN

FILE 'USPATFULL' ENTERED AT 13:39:50 ON 21 SEP 2000

L6 440 S DEN 438
L7 320 S L6 AND VISCOSITY
L8 18 S L7 AND POISE
L9 18 S L7 (25A) POISE
L10 18 S L7 (P) POISE
L11 659 S VINYL TOLUENE (P) RADICAL?